Fig.1

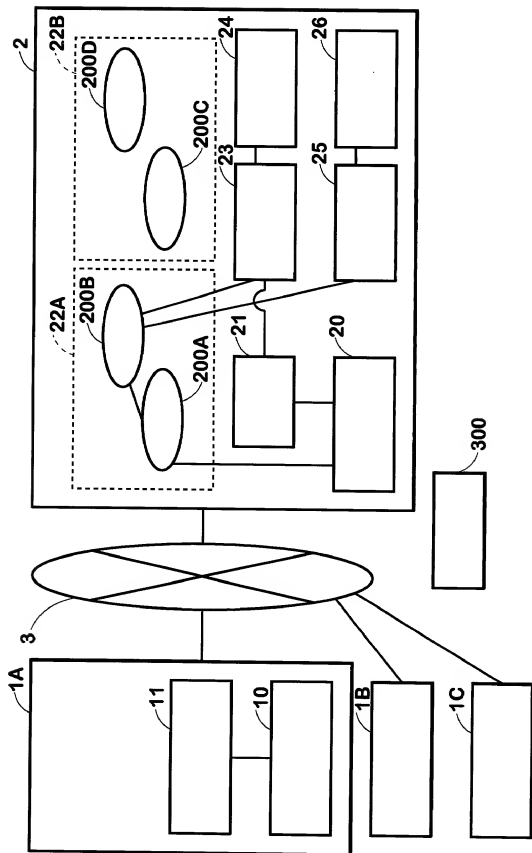# Fig.2

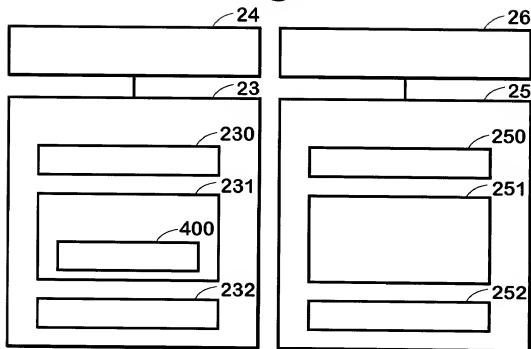# Fig.3

(1) addAP(apID)
(2) removeAP(apID)
(3) list AP()
(4) addPrincipal(apID, principalID)
(5) removePrincipal(apID, principalID)
(6) listPrincipal(apID)
(7) putPrincipalInfo(apID, principalID, principalInfoKey,
     principalInfoValue)
(8) getPrincipalInfo(apID, principalID, principalInfoKey)
(9) removePrincipalInfo(apID, principalID, principalInfoKey)
(10) listPrincipalInfo(apID, principalID)
(11) addEventListener(apID, listernerID, listener)
(12) removeEventListener(apID, listenerID)
(13) listEventListener(apID)

Fig.4

(1) addAP(apID)
(2) removeAP(apID)
(3) list AP()
(4) addKey(apID, key)
(5) removeKey(apID, key)
(6) listKey(apID)
(7) putObjectInfo(apID, key, principalInfoKey, principalInfoValueTemplate, object)
(8) getObjectInfo(apID, key, principalInfoKey, principalInfoValue)
(9) removeObjectInfo(apID, key, principalInfoKey, principalInfoValueTemplate)
(10) listObjectInfo(apID, key)

Fig.5

OBJECT SUPPLYING DEVICE

CLIENT UNIT

S100:REQUEST AUTHENTICATION

S110-3:RETURN AUTHENTICATION RESULT

IF AUTHENTICATION SUCCEEDS

S120:RETURN REQUEST MESSAGE

S150:DELIVER DISTRIBUTING MATTER

S110-1:OBTAIN AUTHENTICATION DATA

S110-2:AUTHENTICATE USER

S130:OBTAIN PRINCIPAL INFORMATION

S140:OBTAIN DISTRIBUTING MATTER

200A~200D

Fig.6

APPLICATION ID	PRINCIPAL ID	PRINCIPAL INFORMATION	
		PRINCIPAL INFORMATION KEY	PRINCIPAL INFORMATION VALUE
delivery	sakurai123		{1970/1/1, "man"}
	yamada456	PersonalData	{1976/5/29, "woman"}
	kobayashi789		{1973/3/2, "man"}

Fig.7

APPLICATION ID	KEY	OBJECT INFORMATION		
		OBJECT INFORMATION KEY		OBJECT INFORMATION VALUE
		PRINCIPAL INFORMATION KEY	PRINCIPAL INFORMATION VALUE TEMPLATE	
delivery	deliveryItem	PersonalData	[30,"man"]	A
			[20,"man"]	B
			[30,"woman"]	C
			[20,"woman"]	D

Fig.8

OBJECT SUPPLYING DEVICE

200A~200D or 25   23   24

S200:REQUEST NOTIFICATION OF CHANGE

S210-1: REGISTER EVENT LISTENER

S210-2: COMPLETE REGISTRATION

FOLLOWING PROCEDURE IS NOT CONSECUTIVE

S220-1: CHANGE PRINCIPAL INFORMATION

S220-2: NOTIFY CHANGE
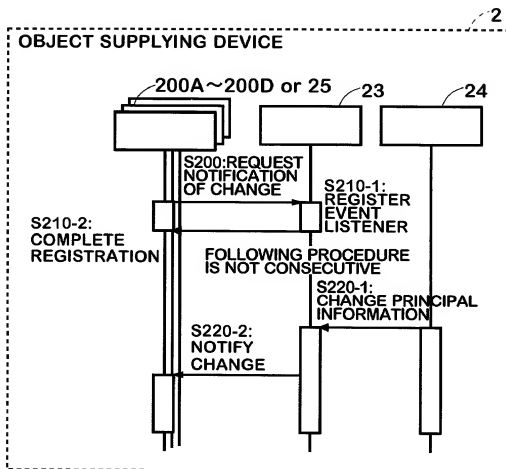
Fig.9

APPLICATION ID	REGISTRATION LISTENER
delivery	listenerA
	listenerB